

RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000000000		FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNNNNN	NNN	000	000	FFF	FFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRRRRRRRRRRR		UUU		UUU	NNN	NNN	000	000	FFFFFFFFFFFFFF	FFFFFFFFFFFFFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU		UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF
RRR	RRR	UUUUUUUUUUUUUUUU		UUUUUUUUUUUUUUUU	NNN	NNN	000000000		FFF	FFF

К 3

```

SSSSSSSSS      CCCCCCCC LL
SSSSSSSSS      CCCCCCCC LL
SS              CC        LL
SS              CC        LL
SS              CC        LL
SS              CC        LL
          SSSSSS    CC        LL
          SSSSSS    CC        LL
                  SS       LL
                  SS       LL
                  SS       LL
                  SS       LL
SSSSSSSSS      CC        LL
SSSSSSSSS      CCCCCCCC LLLLLLLLLLLL
SSSSSSSSS      CCCCCCCC LLLLLLLLLLLL

```

```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```

SETD
V04-

[illegible]

Shift current word in MRA to the left

L 3
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1 Page 1 (1)

```
0001 0 %TITLE 'Shift current word in MRA to the left'
0002 0 MODULE SCL (
0003 0 IDENT = 'V04-000'
P 0004 0 %BLISS32C,
P 0005 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
0006 0 ]
0007 0 ) =
0008 1 BEGIN
0009 1
0010 1 *****
0011 1 *
0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0013 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0014 1 * ALL RIGHTS RESERVED.
0015 1 *
0016 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0017 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0018 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0019 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0020 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0021 1 * TRANSFERRED.
0022 1 *
0023 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0024 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0025 1 * CORPORATION.
0026 1 *
0027 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0028 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0029 1 *
0030 1 *
0031 1 *****
0032 1
0033 1 ++
0034 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0035 1
0036 1 ABSTRACT: Rearrange the MRA by moving the current word to the left.
0037 1
0038 1
0039 1 ENVIRONMENT: Transportable
0040 1
0041 1 AUTHOR: R.W.Friday CREATION DATE: May, 1978
0042 1
```

SETD
V04-

: Ro

: 1
: 1
: 1

\$

Shift current word in MRA to the left
Revision History

M 3
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742 Page 2
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1 (2)

SETD
V04-

```

44      0043 1 %SBTTL 'Revision History'
45      0044 1
46      0045 1   MODIFIED BY:
47      0046 1
48      0047 1           002      REM00002      Ray Marshall      07-Mar-1983
49      0048 1           Global edit of all modules. Updated module names, idents,
50      0049 1           copyright dates. Changed require files to BLISS library.
51      0050 1
52      0051 1   --

```

Si
RU
EL
Li
Le
Me
Co

SCL
V04-000

Shift current word in MRA to the left
Module Level Declarations

N 3
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1 Page 3
(3)

**F1

```

54 0052 1 %SBTTL 'Module Level Declarations'
55 0053 1
56 0054 1 TABLE OF CONTENTS:
57 0055 1
58 0056 1
59 0057 1 INCLUDE FILES:
60 0058 1
61 0059 1
62 0060 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
63 0061 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
64 0192 1
65 U 0193 1 %IF DSRPLUS %THEN
66 U 0194 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
67 0195 1 %ELSE
68 0196 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
69 0197 1 %FI
70 0198 1
71 0199 1
72 0200 1 MACROS:
73 0201 1
74 0202 1
75 0203 1 EQUATED SYMBOLS:
76 0204 1
77 0205 1
78 0206 1 OWN STORAGE:
79 0207 1
80 0208 1
81 0209 1 EXTERNAL REFERENCES:
82 0210 1
83 0211 1
84 0212 1 EXTERNAL
85 0213 1 MRA : REF FIXED_STRING,
86 0214 1 SCA : SCA_DEFINITION,
87 0215 1 TSF : TSF_DEFINITION;
88 0216 1
89 0217 1 EXTERNAL ROUTINE
90 0218 1 GCSKIP;
91 0219 1
```



```
93 0220 1 %SBTTL 'SCL --'
94 0221 1 GLOBAL ROUTINE scl : NOVALUE =
95 0222 1
96 0223 1 ++
97 0224 1 FUNCTIONAL DESCRIPTION:
98 0225 1
99 0226 1 See ABSTRACT for a sufficient explanation.
100 0227 1
101 0228 1 FORMAL PARAMETERS:      None
102 0229 1
103 0230 1 IMPLICIT INPUTS:      None
104 0231 1
105 0232 1 IMPLICIT OUTPUTS:     None
106 0233 1
107 0234 1 ROUTINE VALUE:
108 0235 1 COMPLETION CODES:      None
109 0236 1
110 0237 1 SIDE EFFECTS:         None
111 0238 1
112 0239 1 --
113 0240 1
114 0241 2 BEGIN
115 0242 2
116 0243 2 LOCAL
117 0244 2     ptr,
118 0245 2     ptr_copy;
119 0246 2
120 0247 2     fs_init (mra);                !reset pointers and counters back to start
121 0248 2     tsf_int_hl = 0;              !Nothing in TSF yet.
122 0249 2     tsf_ext_hl = 0;
123 0250 2     tsf_int_vl = 0;              !...
124 0251 2
125 0252 2 IF .sca_wrd_int_l EQL 0 THEN      ! If no shift require, then
126 0253 2     RETURN;                      !   exit.
127 0254 2
128 0255 2     gcskip (.sca_spacing - 1);    !Generate intermediate code for skipping.
129 0256 2
130 0257 2     INCR i FROM 1 TO .sca_lm DO
131 0258 2         (fs_wchar (mra, %C' '));  !Fill out left margin with spaces.
132 0259 2
133 0260 2     tsf_int_hl = .tsf_int_hl + .sca_lm;
134 0261 2     tsf_ext_hl = .sca_lm;
135 0262 2     ptr = .fs_next (mra);          !The current word will start here eventually.
136 0263 2     ptr_copy = .fs_next (mra);
137 0264 2
138 0265 2     INCR i FROM 1 TO (.sca_wrd_int_l) DO
139 0266 2         BEGIN                      !move the current word a character at a time.
140 0267 2             ! NOTE: This could have been coded using fs_wchar, and forgetting
141 0268 2             !         about using ptr_copy and hold_char; however, that uncovered a
142 0269 2             !         compiler bug. Also, this generates more efficient object code.
143 0270 2
144 0271 2         LOCAL
145 0272 2             hold_char;
146 0273 2
147 0274 2         hold_char = CH$RCHAR_A (sca_wrd_ptr);
148 0275 2         CH$WCHAR_A (.hold_char, ptr_copy);
149 0276 2         fs_length (mra) = .fs_length (mra) + 1;
```


SCL
V04-000

Shift current word in MRA to the left
SCL --

C 4
16-Sep-1984 01:46:12
14-Sep-1984 13:08:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1

Page 5
(4)

```
: 150
: 151
: 152
: 153
: 154
: 155

0277 2      END;
0278 2
0279 2      fs_next (mra) = .ptr_copy;
0280 2      sca_wrd_ptr = .ptr;
0281 2      RETURN;
0282 1      END;
```

!re-establish pointer to SCA_WRD.

!End of SCL

.TITLE SCL Shift current word in MRA to the left
.IDENT \V04-000\

.EXTRN MRA, SCA, TSF, GCSKIP

.PSECT \$CODE\$,NOWRT,2

.ENTRY SCL, Save R2,R3,R4,R5,R6,R7,R8,R9

59	00000000G	EF	9E	00002	MOVAB	TSF, R9	0221
58	00000000G	EF	9E	00009	MOVAB	MRA, R8	
57	00000000G	EF	9E	00010	MOVAB	SCA+248, R7	
50		68	D0	00017	MOVL	MRA, R0	0247
		0C	A0	D4 0001A	CLRL	12(R0)	
60		10	A0	9E 0001D	MOVAB	16(R0), (R0)	
04	A0		60	D0 00021	MOVL	(R0), 4(R0)	
50			69	D0 00025	MOVL	TSF, R0	
			60	7C 00028	CLRL	(R0)	0248
		18	A0	D4 0002A	CLRL	24(R0)	0250
		04	A7	D5 0002D	TSTL	SCA+252	0252
			5A	13 00030	BEQL	5\$	
7E	84	B7	01	C3 00032	SUBL3	#1, @SCA+124, -(SP)	0255
	00000000G	EF	01	FB 00037	CALLS	#1, GCSKIP	
53		FF7C	D7	D0 0003E	MOVL	@SCA+116, R3	0257
50			68	D0 00043	MOVL	MRA, R0	0258
52		04	A0	9E 00046	MOVAB	4(R0), R2	
51			68	D0 0004A	MOVL	MRA, R1	
			50	D4 0004D	CLRL	I	
			09	11 0004F	BRB	2\$	
00	B2		20	90 00051 1\$:	MOVB	#32, @0(R2)	
			62	D6 00055	INCL	(R2)	
		0C	A1	D6 00057	INCL	12(R1)	
F3	50		53	F3 0005A 2\$:	AOBLEQ	R3, I, 1\$	0257
	50		69	D0 0005E	MOVL	TSF, R0	0258
	60		53	C0 00061	ADDL2	R3, (R0)	0260
04	A0		53	D0 00064	MOVL	R3, 4(R0)	0261
	56		62	D0 00068	MOVL	(R2), PTR	0262
	50		62	D0 0006B	MOVL	(R2), PTR_COPY	0263
	54	04	A7	D0 0006E	MOVL	SCA+252, R4	0265
			53	D4 00072	CLRL	I	
			0C	11 00074	BRB	4\$	
	55	00	B7	9A 00076 3\$:	MOVZBL	@SCA+248, HOLD_CHAR	0274
			67	D6 0007A	INCL	SCA+248	
	80		55	90 0007C	MOVB	HOLD_CHAR, (PTR_COPY)+	0275
		0C	A1	D6 0007F	INCL	12(RT)	0276
F0	53		54	F3 00082 4\$:	AOBLEQ	R4, I, 3\$	0265
	62		50	D0 00086	MOVL	PTR_COPY, (R2)	0279
	67		56	D0 00089	MOVL	PTR, SCA+248	0280
			04	0008C 5\$:	RET		0282

SCL
V04-000

Shift current word in MRA to the left
SCL --

D 4
16-Sep-1984 01:46:12
14-Sep-1984 13:03:04

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]SCL.BLI;1 Page 6
(4)

; Routine Size: 141 bytes, Routine Base: \$CODE\$ + 0000

; 156 0283 1
; 157 0284 1 END !End of module
; 158 0285 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes
\$CODE\$ 141 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	20	1	86	00:00.2

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SCL/OBJ=OBJ\$:SCL MSRC\$:SCL/UPDATE=(ENH\$:SCL)

; Size: 141 code + 0 data bytes
; Run Time: 00:04.9
; Elapsed Time: 00:17.6
; Lines/CPU Min: 3482
; Lexemes/CPU-Min: 16460
; Memory Used: 57 pages
; Compilation Complete

0349

AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY